

4200-D Technology Court Chantilly, Virginia 20151 TEL 703.642.2306 FAX 703.378.7888

MILL CREEK
RESIDENTIAL

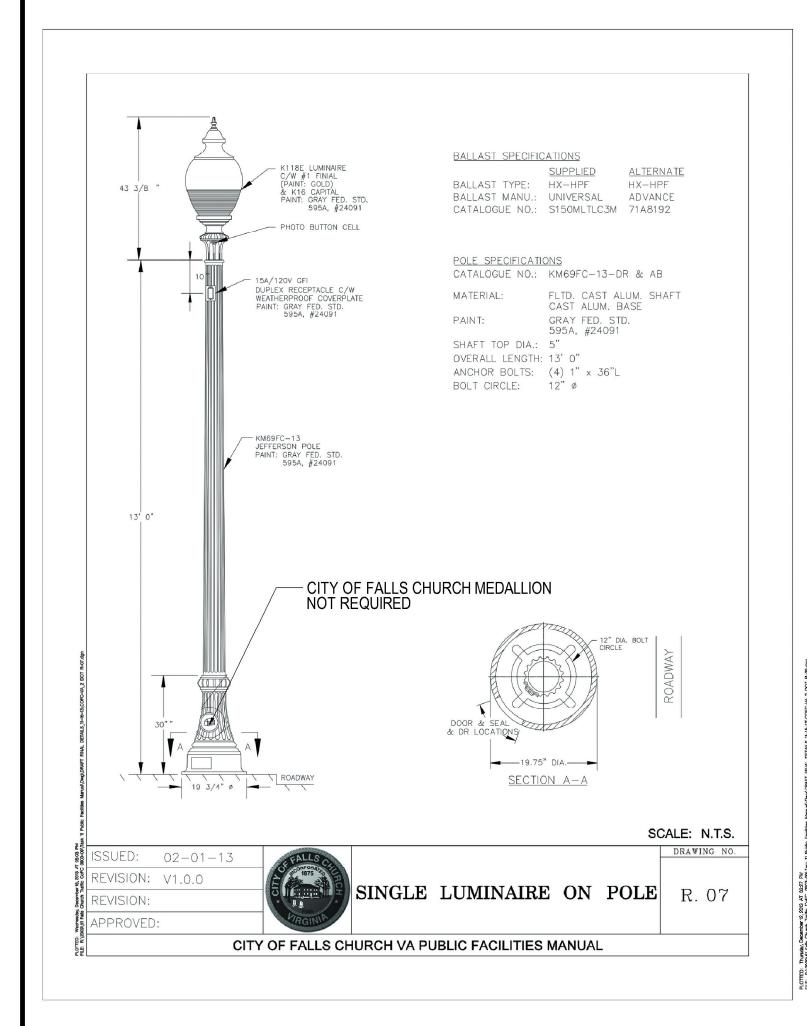
09.23.2016 02.20.2018

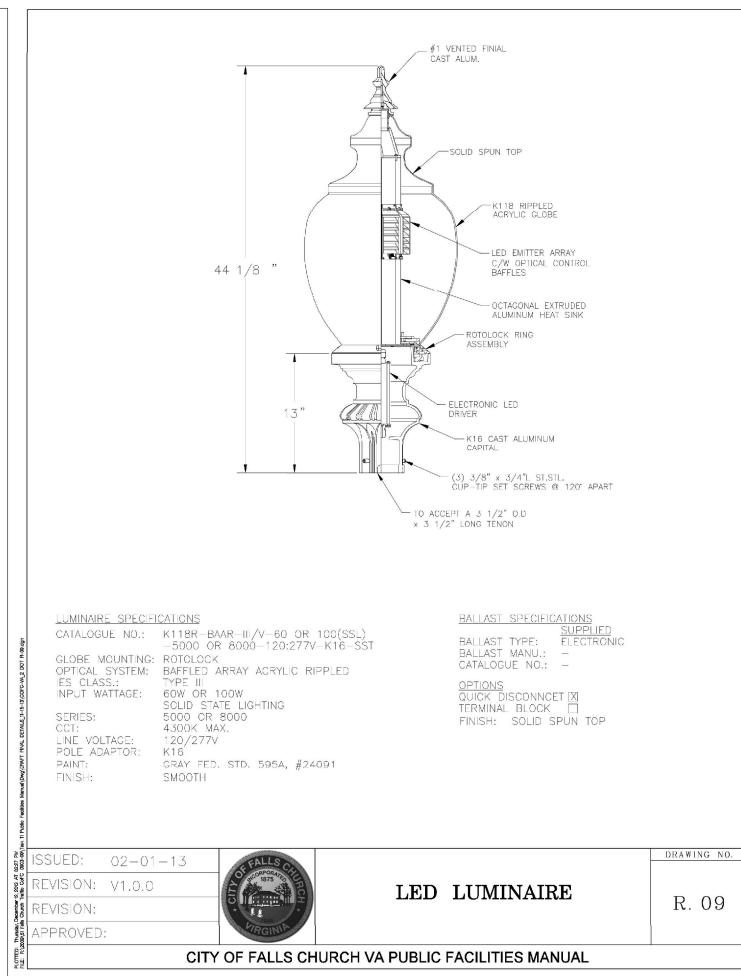
FOUNDERS

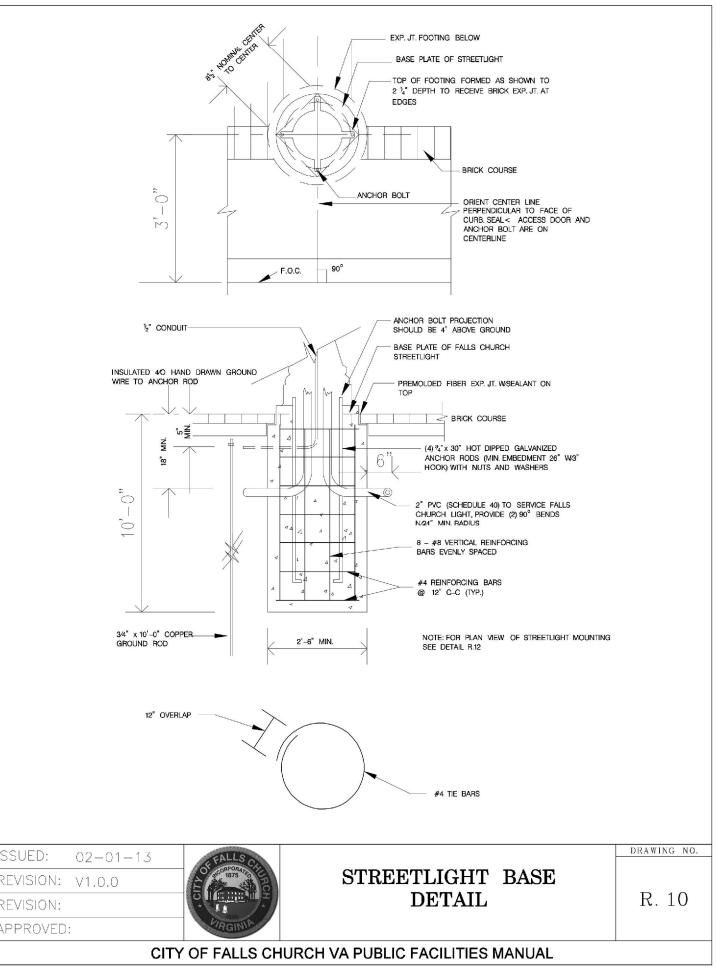
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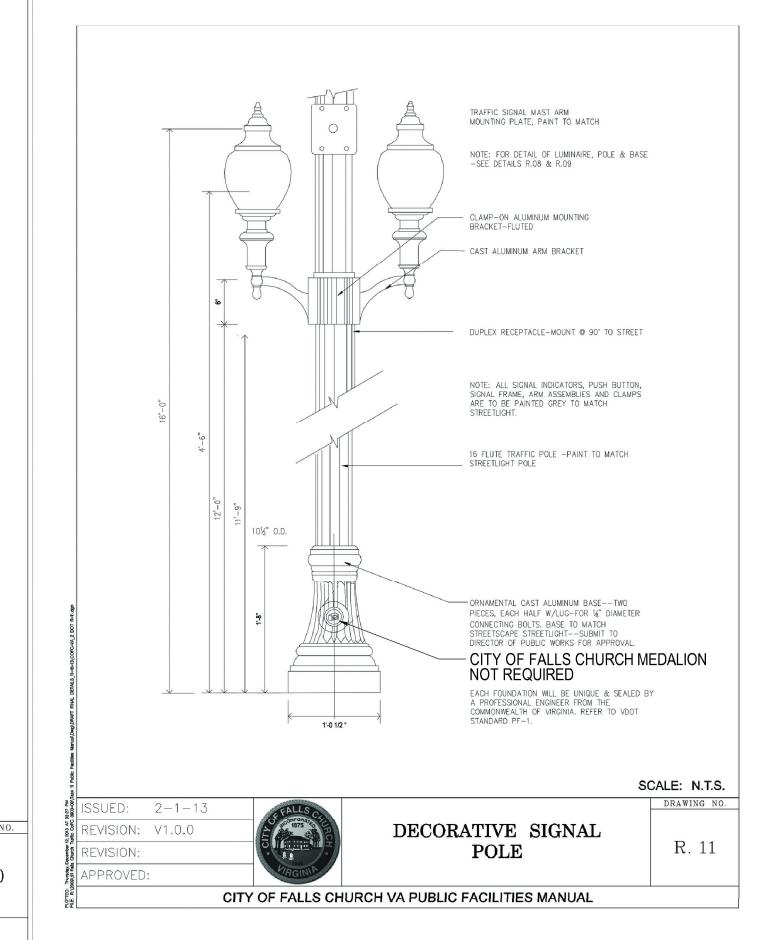
Date FEBRUARY 20, 2018

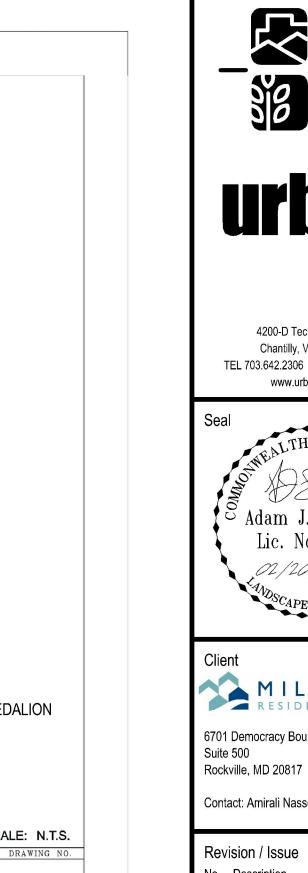
PAVING PLAN

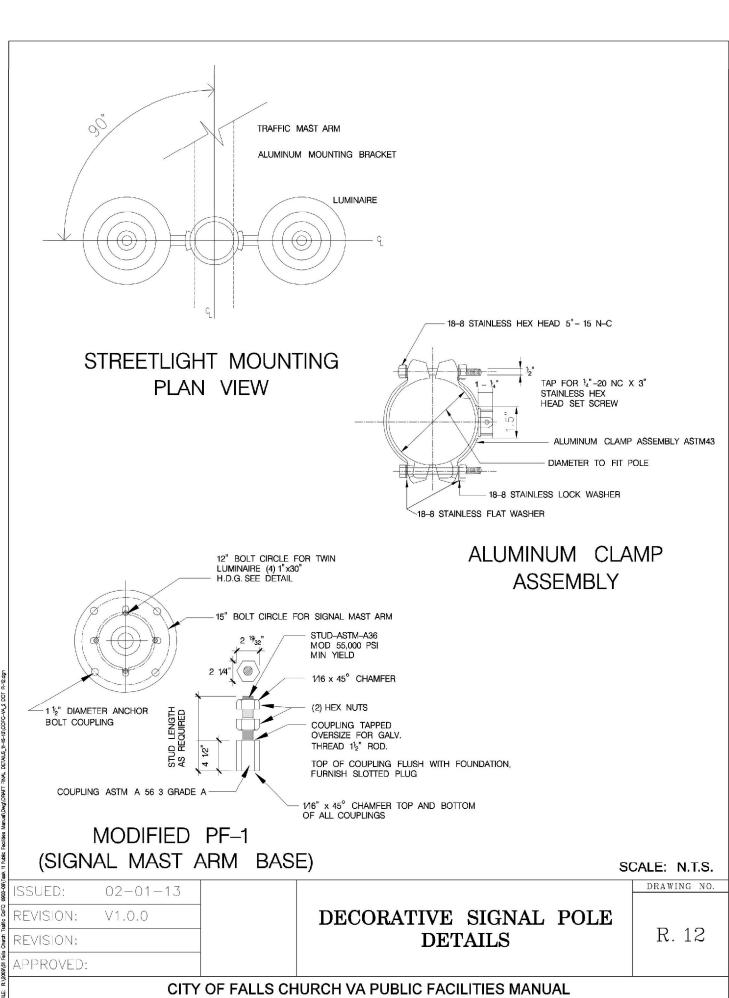


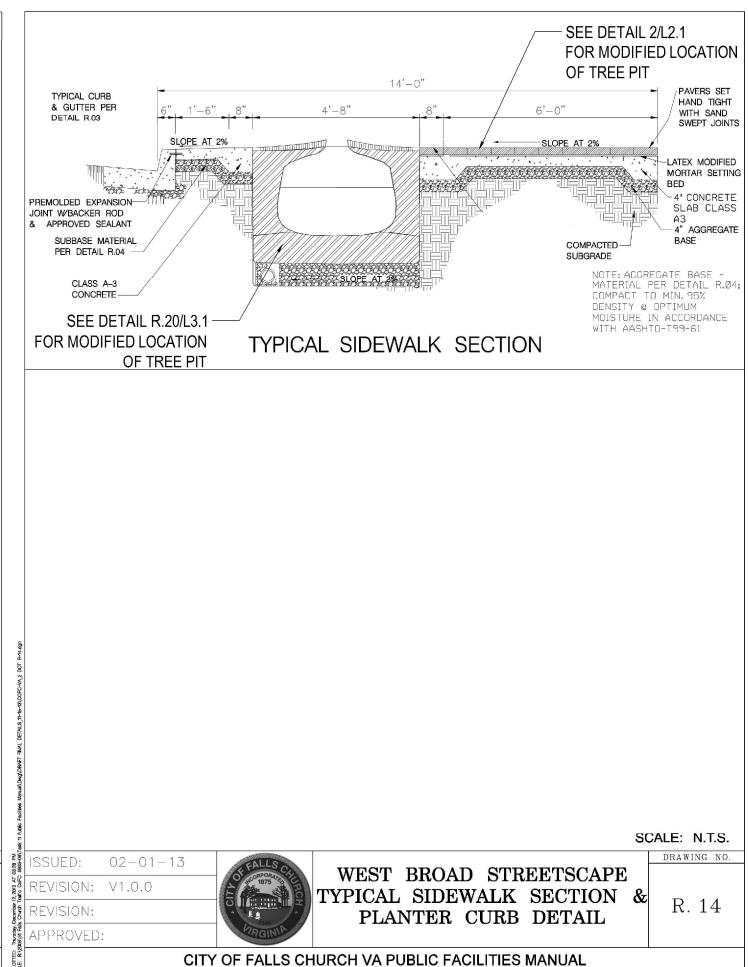


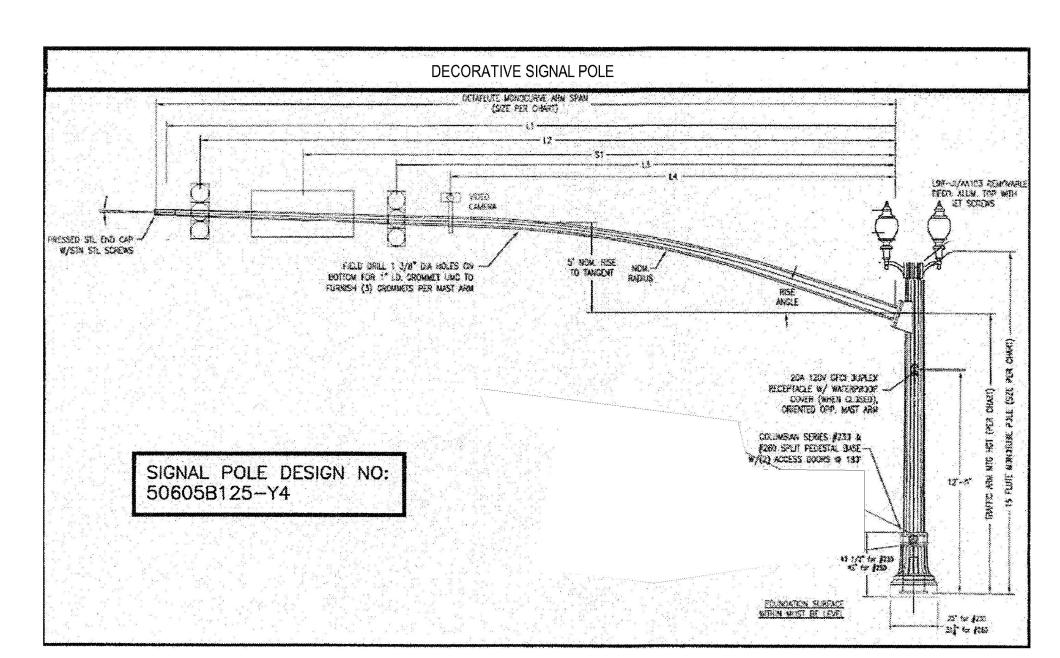






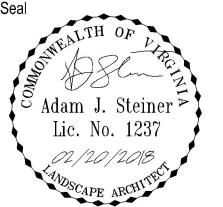








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MILL CREEK
RESIDENTIAL 6701 Democracy Boulevard Suite 500

Contact: Amirali Nasserian

No. Description 09.23.2016 SUBMISSION 01 SUBMISSION 02 02.20.2018

Issue Description

Project Name

FOUNDERS ROW

City of Falls Church, Virginia

Drawn By Checked By AJS Project No. 17-708

Date FEBRUARY 20, 2018

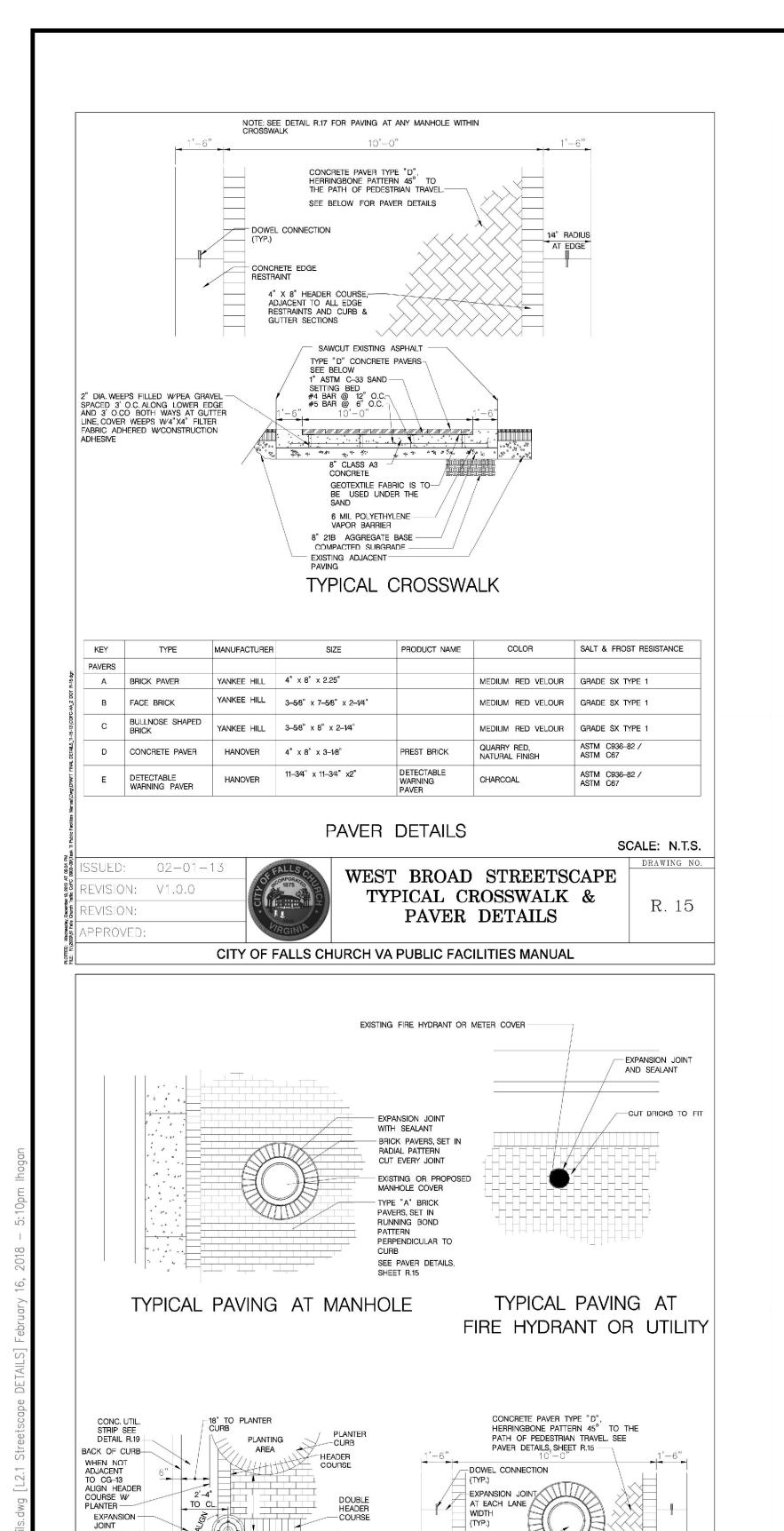
Drawing Title

STREETSCAPE **DETAILS**

Scale: As Shown

Drawing Number

Sheet



STREETLIGHT BASE SEE

CITY OF FALLS CHURCH VA PUBLIC FACILITIES MANUAL

PROPOSED

WEST BROAD STREETSCAPE PAVING DETAILS

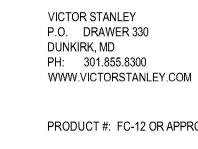
4" x 8" HEADER COURSE, ADJACENT TO ALL EDGE

RESTRAINTS AND CURB & GUTTER SECTIONS

CROSSWALK PAVING AT

MH-PLAN

SCALE: N.T.S. DRAWING NO.



PRODUCT #: FC-12 OR APPROVED EQUAL

PRODUCT INFO:

 STANDARD TAPERED FORMED LID WIDTH AT TOP: 23-1/4" WIDTH AT BOTTOM 23-1/4"

FINISH: POWDER-COATED

 HEIGHT: 35" COLOR: BLACK

1. WHERE TRASH AND RECYCLING BINS ARE PAIRED, THEY SHALL BE SET DIRECTLY

> ADJACENT TO ONE ANOTHER AND DIFFERENTIATED BY MARKINGS ON THE LID

VICTOR STANLEY P.O. DRAWER 330 DUNKIRK, MD PH: 301.855.8300

WWW.VICTORSTANLEY.COM

PRODUCT #: BRBS-103 OR APPROVED EQUAL PRODUCT INFO:

IN-GROUND MOUNT

 COLOR: BLACK FINISH: POWDER-COATED

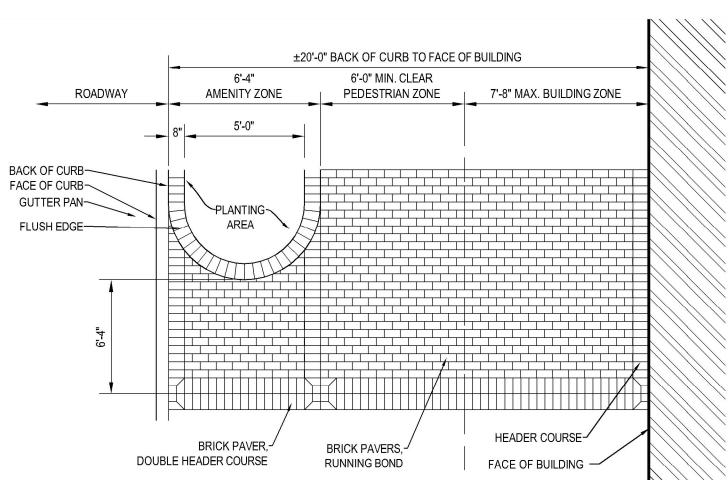
SEE DETAIL 5 / L2.1 FOR TYPICAL LAYOUT

BIKE RACK

2'-0" MIN.



STREETSCAPE TRASH-RECYCLE BIN



FLUSH PLANTER CURB AND PAVING

FLUSH PLANTER OPTION PROVIDED TO PROTECT EXPOSED SOIL VOLUME FROM COMPACTION AND LIMIT WATER AND SALT RUNOFF.

VICTOR STANLEY P.O. DRAWER 330 DUNKIRK, MD PH: 301.855.8300

WWW.VICTORSTANLEY.COM PRODUCT #: RB 28 OR APPROVED EQUAL

PRODUCT INFO:

 SURFACE MOUNT NO INTERMEDIATE ARM-RESTS

 WIDTH: 6'-0" DEPTH: 2'-2"

 COLOR: BLACK FINISH: POWDER-COATED



BIKE RACK, SEE 6 / L2.1 FOR ADDITIONAL INFORMATION - LIMITS OF CLEAR SPACE

3'-0" MIN.

·-----

BIKE RACK - LAYOUT

DOGIPOT 2100 PRINCIPAL ROW SUITE 405 ORLANDO, FLORIDA 32837 TEL: 800.364.7681 www.dogipot.com MODEL: #1003-L ALUMINUM DOGI-POT PET STATION

SUPPLIER:

COLOR: FOREST GREEN

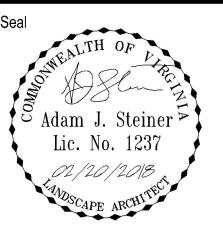
INSTALL SUPPORT POST W/6" DIA. CONCRETE FOOTER, BAG DISPENSER TO BE 18"-45" ABOVE FINISH GRADE



STREETSCAPE BENCH
N.T.S.



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City of Falls Church, Virginia

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Date FEBRUARY 20, 2018

Drawing Title

STREETSCAPE **DETAILS**

Scale: As Shown

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Sheet

of 00

TRUNCATED

DOMES AT CG-13

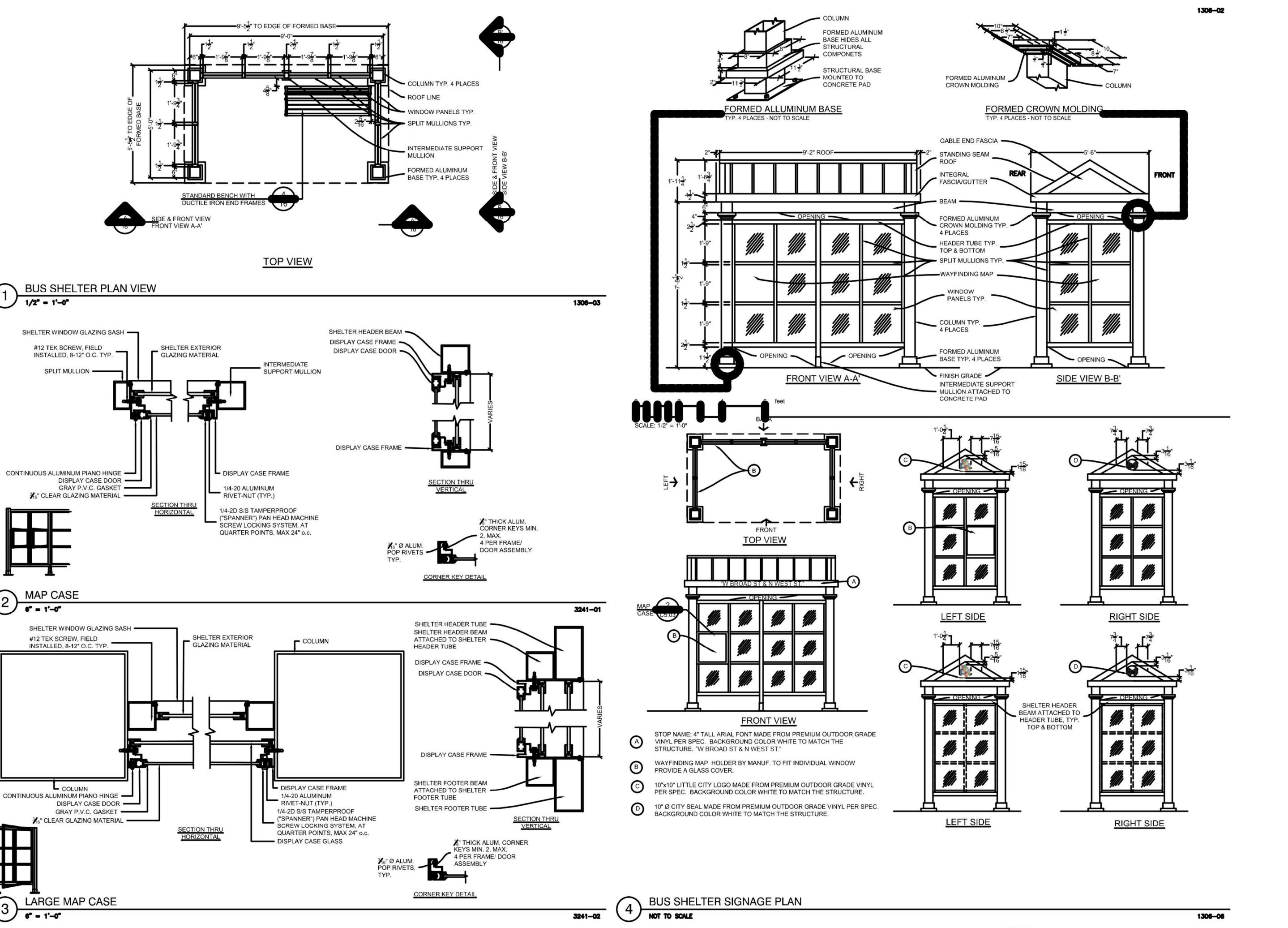
PPROVED:

WHEN ADJACENT TO CG-13, -ALIGN HEADER COURSE AT BACK OF DOMES

TYPICAL PAVING AT

STREETLIGHT BASE

02 - 01 - 13



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4200-D Technology Court Chantilly, Virginia 20151

TEL 703.642.2306 FAX 703.378.7888

Seal

Adam J. Steiner

Lic. No. 1237

Lic. No. 1237

O2/20/20/8

Client

MILL CREEK

RESIDENTIAL

6701 Democracy Boulevard Suite 500 Rockville, MD 20817

Contact: Amirali Nasserian

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STREETSCAPE DETAILS

Scale: As Shown

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Sheet

L2.2

of 00

NOTES:

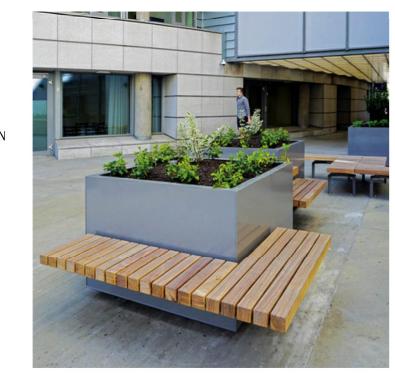
1. PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR THE SHELTER AND ALL COMPONENTS FROM THE MANUFACTURER FROM A LICENSED P.E.

IN THE STATE OF VIRGINIA.

PRODUCT: MEET & WORK PLANTER PRODUCT CODE: M&W-TS-120 TABLETOP: TIMBER UNTREATED 100% HARDWOOD (CUMARU) SUPPORT: ALUMINUM

IRRIGATION SYSTEM

PRODUCT: TREETEC BOTTOM UP WALL CONSTRUCTION: THERMAL INSULATION AND OXYGEN CIRCULATION AROUND THE ROOTBALL



SUPPLIER: LANDSCAPE FORMS, INC. 431 LAWNDALE AVENUE KALAMAZOO, MI 49048 TEL: 800.430.6209 WEB: WWW.LANDSCAPEFORMS.COM EMAIL: SPECIFY@LANDSCAPEFORMS.COM

LOCAL REP: BARBARA NOLAN, INC. 12606 TOLMAN ROAD FAIRFAX, VA 22033 TEL: 703.648.0848 BARBARA@BARBARANOLANINC.COM

PRODUCT: HAWTHORNE LIGHTING COLOR: STORMCLOUD FINISH: POWDER-COATED HEIGHT: 37"



SUPPLIER: SEASIDE CASUAL FURNITURE 11 INDUSTRIAL DRIVE COVENTRY, RI 02816 TEL: 800.809.3114 FAX: 401.792.8663 WEB: WWW.SEASIDECASUAL.COM EMAIL: SALES@SEASIDECASUAL

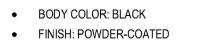
PRODUCT: MADirondack CHAIR (280) COLOR: CHERRY (18) SEAT HEIGHT: 14" ARM HEIGHT: 22"



FORMS+SURFACES PRODUCT: DISPATCH LITTER RECEPTACLE PRODUCT #: SLDIS-136

PRODUCT INFO:

- 36 GALLON, SINGLE STREAM WITH ONE
- 36-GALLON LINER STANDARD OPENING BOTH SIDES
- LIFT LEVER LATCH
- SURFACE MOUNT
- WIDTH: 25-1/2" DEPTH: 22"
- HEIGHT: 43"
- LID COLOR: BLACK





PLANTER
N.T.S.

STREETLIFE PHILADELPHIA, PA P: 215.247.0148 WWW.STREETLIFE.NL

PRODUCT: MEET & WORK TABLE AND BENCH

<u>TABLE</u>

PRODUCT CODE: M&W-TS-120 TABLETOP: TIMBER UNTREATED 100% HARDWOOD (CUMARU) SUPPORT: ALUMINUM

<u>BENCH</u>

PRODUCT CODE: M&W-LBS120 SEAT: TIMBER, UNTREATED 100% HARDWOOD (CUMARU) SUPPORT BENCH: STAINLESS STEEL





BOLLARD N.T.S.

SUPPLIER: LANDSCAPE FORMS, INC. 431 LAWNDALE AVENUE KALAMAZOO, MI 49048 TEL: 800.430.6209 WEB: WWW.LANDSCAPEFORMS.COM EMAIL: SPECIFY@LANDSCAPEFORMS.COM

LOCAL REP: BARBARA NOLAN, INC. 12606 TOLMAN ROAD FAIRFAX, VA 22033 TEL: 703.648.0848

BARBARA@BARBARANOLANINC.COM PRODUCT: ALCOTT PEDESTRIAN LIGHT COLOR: STORMCLOUD FINISH: POWDER-COATED

HEIGHT:

REFER TO LIGHTING PLAN FOR ADDITIONAL LIGHTING INFORMATION

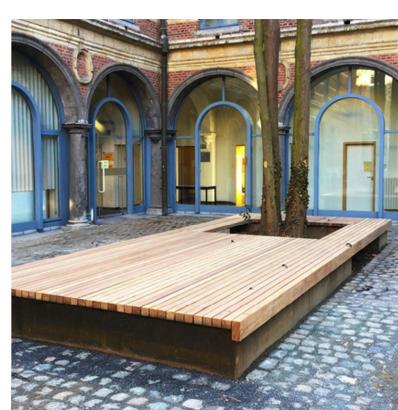


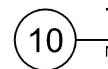


ADIRONDACK CHAIR

STREETLIFE PHILADELPHIA, PA P: 215.247.0148 WWW.STREETLIFE.NL

PRODUCT: PODIUM ISLE TIMBER: HARDWOOD (CUMARU) WALL SECTION: LASER CUT COMB-STURCTURE, MADE OF CORTEN STEEL (WEATHERING STEEL) FINISH: DOUBLE POWDER COATING RAL FINISH -RAL 7011





TRASH-RECYCLE BIN: INTERNAL

TENSILE SHADE SAIL PRODUCT INFO:

FORMS + SURFACES

PITTSBURGH ,PA 15223

WWW.FORMS-SURFACES.COM

PRODUCT #: TRIO BENCH SBTRO-72NA

NO INTERMEDIATE ARM-RESTS

FINISH: POWDER-COATED

COLOR: BLACK ON SIDES AND SLATS

30 PINE STREET

PRODUCT INFO:

LENGTH: 75"

DEPTH: 20"

SURFACE MOUNT

800.451.0410

COLOR: VARIES

FABRIC OPTION: HDPE



TENSILE SHADE SAIL

TABLE & BENCH: INTERNAL

FORMS + SURFACES 30 PINE STREET PITTSBURGH ,PA 15223 800.451.0410 WWW.FORMS-SURFACES.COM

PRODUCT #: TRIO BENCH SBTRO-72BA PRODUCT INFO: SURFACE MOUNT

 6' BACKED WITH ALUMINUM SLATS NO INTERMEDIATE ARM-RESTS

 LENGTH: 75" DEPTH: 23"

 COLOR: BLACK ON SIDES AND SLATS FINISH: POWDER-COATED

BENCH: INTERNAL

N.T.S.





LIGHT POLE: INTERNAL

N.T.S.

STREETLIFE PHILADELPHIA, PA P: 215.247.0148 WWW.STREETLIFE.NL

COLOR - RAL 7011

PRODUCT: SOLID SERIF BENCH PRODUCT CODE: SER-L15-235-CT SEAT AND FRONT SLATS: TIMBER, UNTREATED 100% HARDWOOD (CUMARU) SUPPORT: WEATHERING STEEL LASER CUT-SHAPE RECTANGULAR SHAPE FINISH: DOUBLE POWEDER COATED FINISH IN RAL



BENCH: INTERNAL MARKET SQUARE

N.T.S.



COVER: SQUARE

PODIUM ISLE

SUPPLIER: FONTANA FOUNTAINS LTD 40 GRACECHURCH ST LONDON, EC3V 0DN, UNITED KINGDOM WEBSITE: WWW.FONTANAFOUNTAINS.COM TEL: +44.20.7193.8975 EMAIL: INFO@FONTANAFOUNTAINS.COM

PRODUCT: FPK 1000 SERIES (OR APPROVED EQUAL) MATERIAL: STAINLESS TEEL AISI 304 NOZZLES: FROTHY WATER







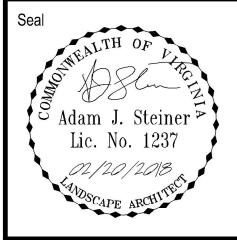




BACKLESS BENCH : INTERNAL N.T.S.

SPECIFICATION SHOWN IS FOR DESIGN INTENT ONLY. OWNER MAY SUBSTITUTE AN APPROVED EQUAL

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MILL CREEK RESIDENTIAL

6701 Democracy Boulevard Suite 500 Rockville, MD 20817

Contact: Amirali Nasserian

Revision / Issue No. Description 09.23.2016 SUBMISSION 01 SUBMISSION 02 02.20.2018

Project Name

FOUNDERS ROW

City of Falls Church, Virginia Checked By

Project No. 17-708

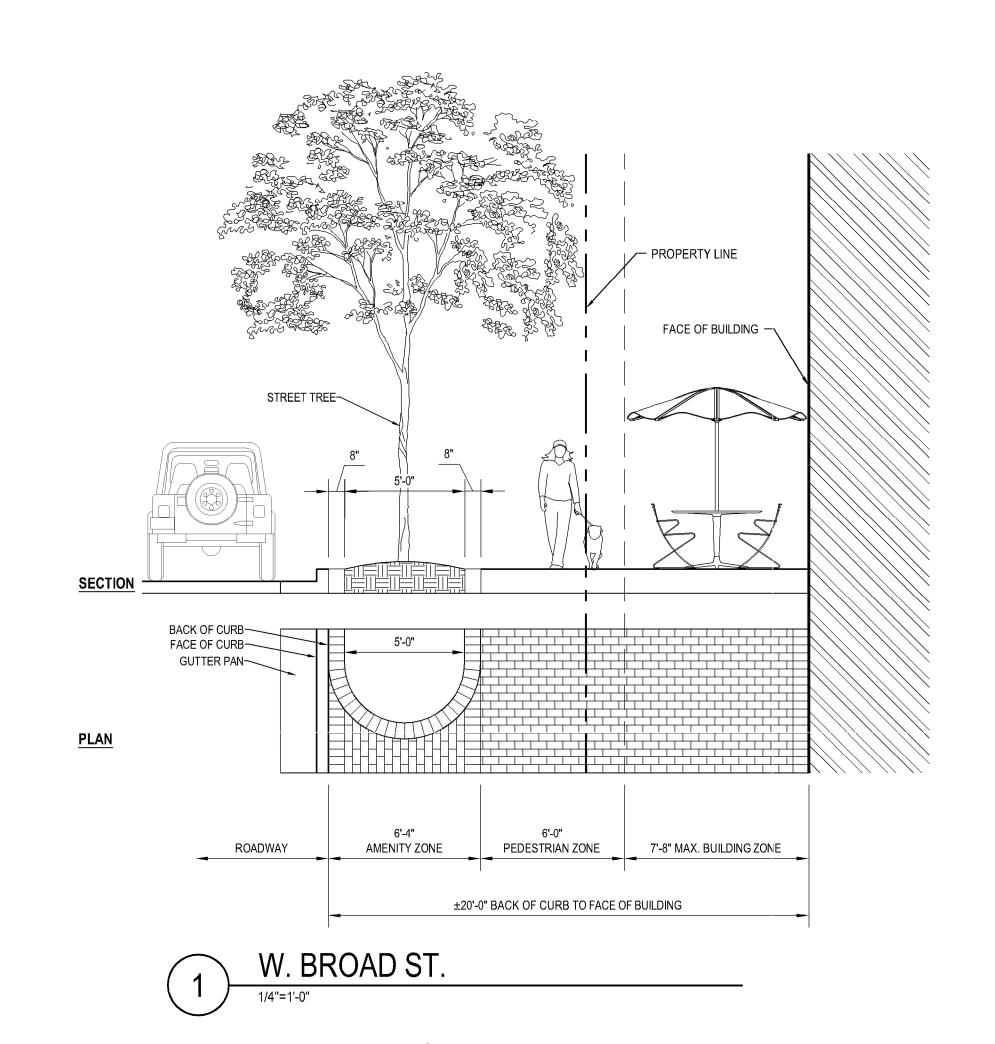
Date FEBRUARY 20, 2018

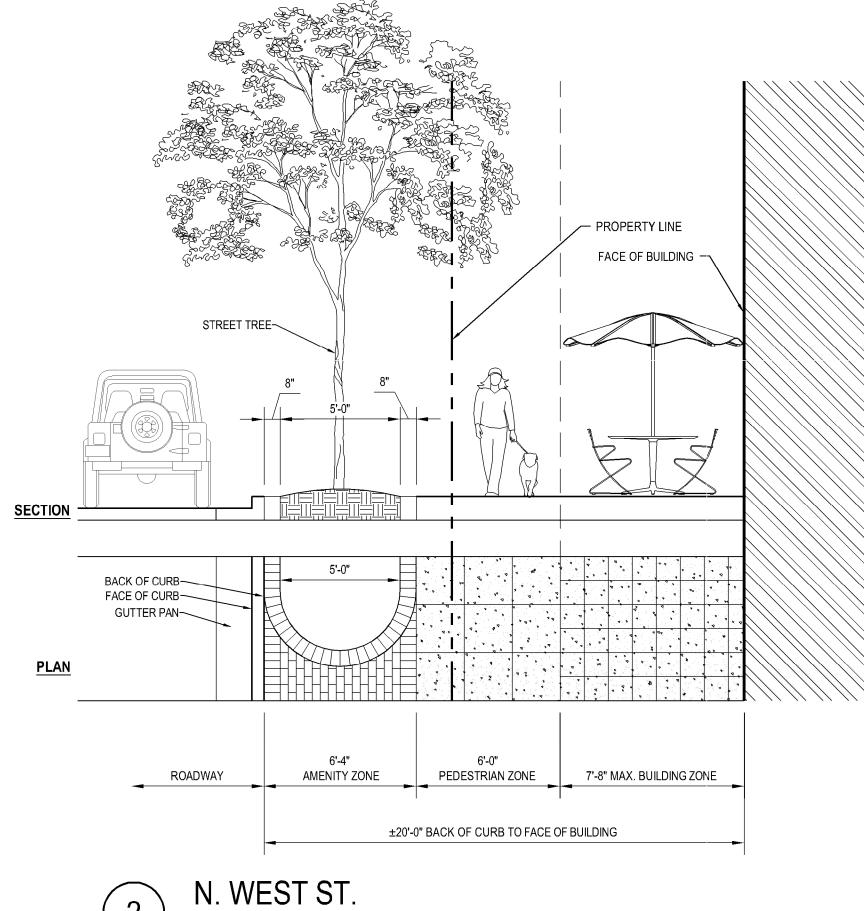
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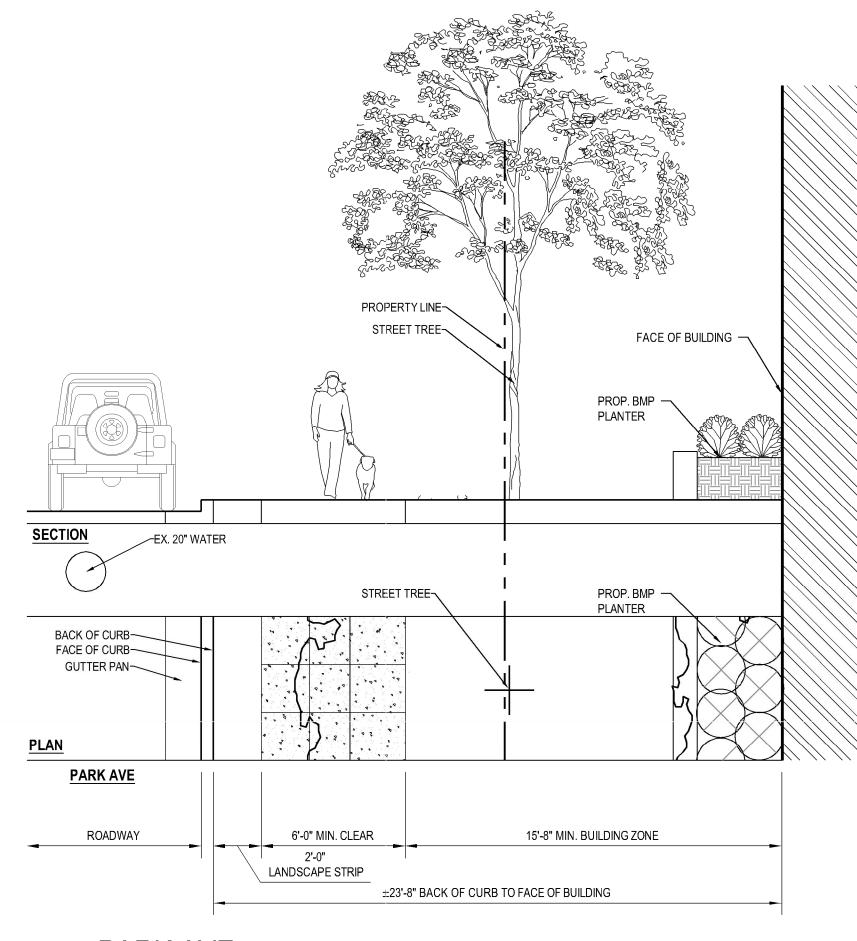
PROJECT HARDSCAPE **DETAILS**

Scale: As Shown

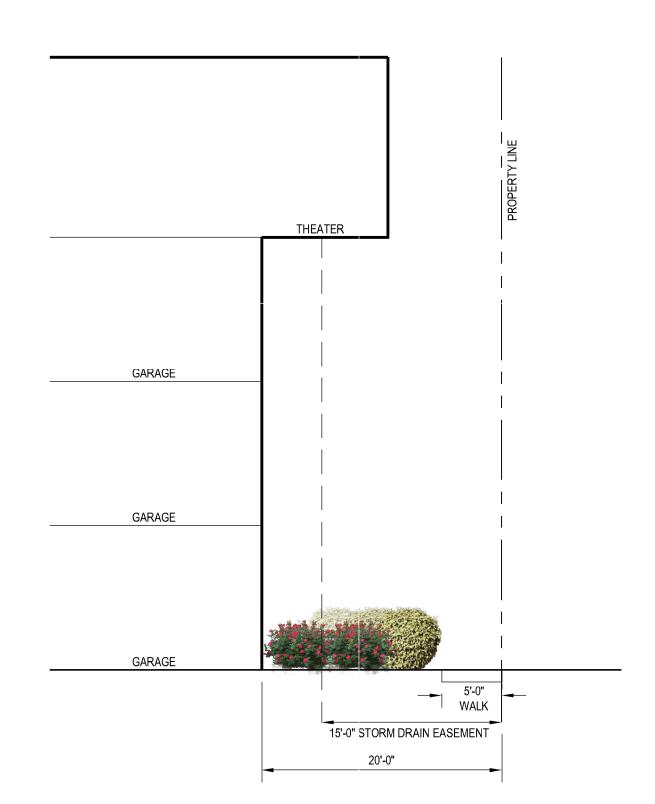
Drawing Number







PARK AVE.



BUFFER

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Lic. No. 1237

MILL CREEK
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6701 Democracy Boulevard Suite 500 Rockville, MD 20817

Contact: Amirali Nasserian

Revision / Issue No. Description
SUBMISSION 01
SUBMISSION 02

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City of Falls Church, Virginia

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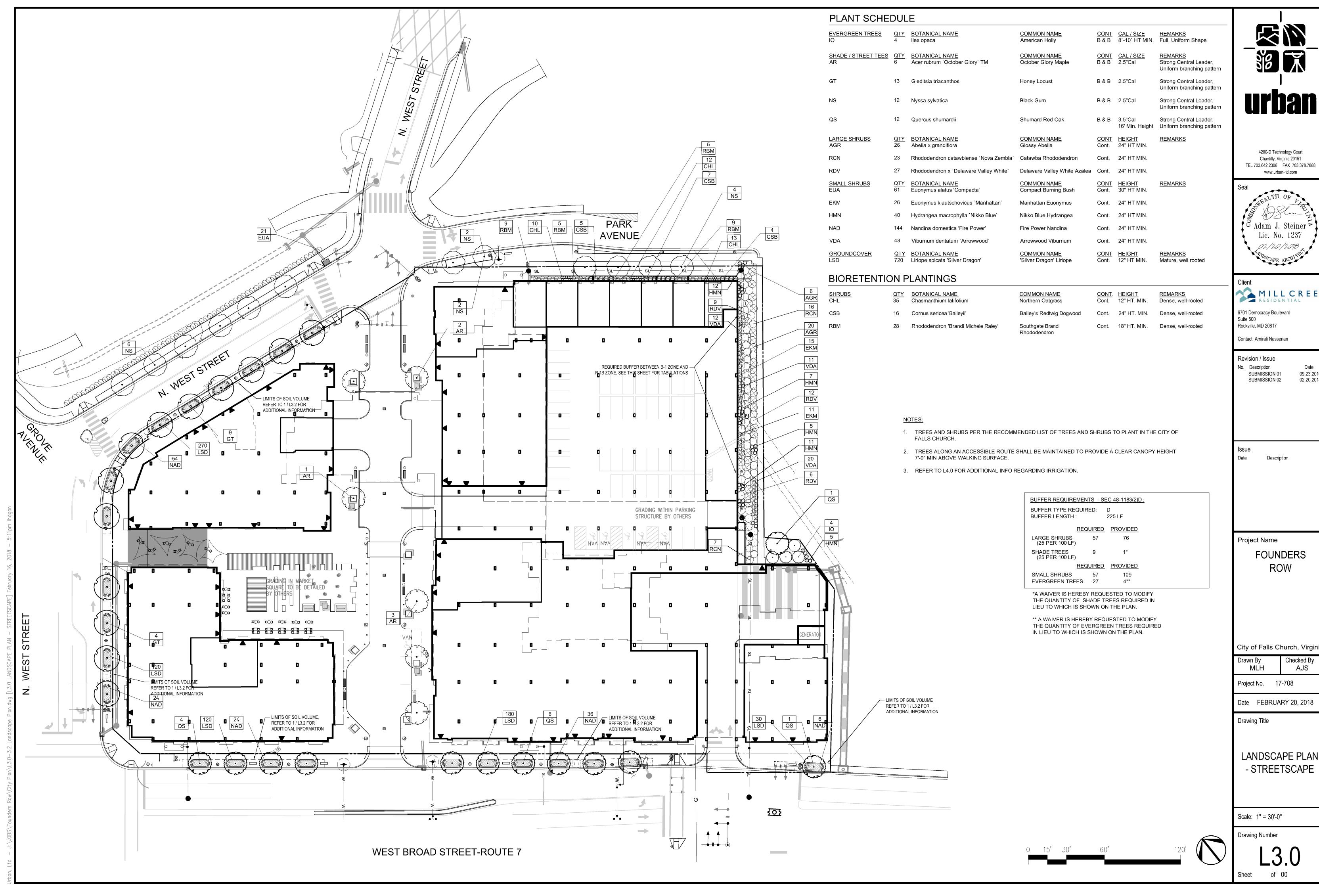
Date FEBRUARY 20, 2018

Drawing Title

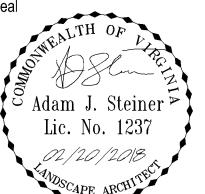
STREETSCAPE SECTIONS

Scale: As Shown

Drawing Number



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MILL CREEK
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09.23.2016 02.20.2018

FOUNDERS

City of Falls Church, Virginia

Checked By

- STREETSCAPE

specification: ANSI A300, Tree Care Operations

ANSI Z133, Standards for Safety in Tree Care Operations

ANSI Z60, Standards for Nursery Stock

 VDOT Road & Bridge Specifications, most current Edition, Sections: o 244.02(a through h) - Materials o 602 - Topsoil

o 603 - Seeding o 604 - Sodding

The aforementioned documents, as amended by issuing entities, are hereby incorporated into this contract by reference. **B. CITY ARBORIST**

The City Arborist shall be notified a minimum of three days in advance of commencing any form of tree or planting work: 703-248-5183 or arborist@fallschurchva.gov. Per the City's Department of Public Works (DPW) General Provisions for Construction Projects, the City Arborist has the authority

to direct and inspect all work and materials used for any landscape planting, tree protection or tree removal, as well as the authority to require additional tree protection measures and mitigation work. C. PROTECTION

Description

Existing vegetation, where shown in the construction plans or designated by the City Project Manager, shall be saved and protected throughout construction and through the life of the Contract. Tree Preservation shall consist of any and all measures specified in construction plans to help existing trees survive during construction. These measures may include (but are not limited to): watering, mulching, pruning, fertilizing, control of pests or invasive plants, root padding, root pruning and installation of protective fencing.

2. Prior to Construction

All required tree work must be completed and tree preservation measures installed before any vehicle or construction equipment may enter the site. The Contractor's construction foreman, the Contractor's arborist and the City Arborist shall meet to mark the location of the limits of disturbance, tree preservation fencing and root pruning line (where required), erosion control measures, access routes, and areas for storage, concrete wash-out and parking. All tree preservation measures, invasive plant control and tree removal are to be discussed at this time

3. Plant Protection Area (PPA)

A. No construction equipment may enter the Plant Protection Area (PPA), before or after the PPA is marked, except under a temporary access plan approved by the City Arborist.

B. Plant protection fencing shall be six-foot high chain link fence with 11-gauge mesh. Supports shall be 1 5/8 inch outside-diameter pipes, set at least 2 feet into the ground, no more than 8 feet apart. Temporary fencing set in concrete blocks shall not be used unless absolutely necessary; block locations must be marked on the ground with stakes and paint. C. Weatherproof signs at least 8.5" x 11" saying "PLANT PROTECTION AREA: No Entry, No Materials" or equivalent

language, shall be placed a maximum of 20 feet apart on the plant protection fencing. D. No vehicles or materials or debris of any kind, nor concrete washouts nor rinse water from any substance shall be allowed inside the Plant Protection Area. No burning shall be allowed on site.

possible, lines shall be tunneled or bored under the PPA with the approval of the City Arborist.

E. All erosion and sediment control measures shall be installed outside of the PPA. Devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion from affecting the PPA. F. All underground utilities and drain or irrigation lines shall be routed outside the PPA. If alternative routes are not

G. The Contractor shall maintain the plant protection fencing in place at all times throughout construction. The City Arborist must grant approval before any plant protection fencing may be removed, even temporarily.

4. Work Within the PPA

A. Irrigation for preserved vegetation shall be supplied by the Contractor from early spring until the ground freezes in the fall when natural rainfall is less than 1 inch per week. Irrigation must be designed to deliver a minimum of 1 inch of water at a time.

B. All materials to be removed from within the PPA, including trees, brush, debris, pavement, structures or underground features, shall be performed by hand or using equipment operated from outside the PPA. Materials must be lifted out, not skidded across the ground. The City Arborist shall be present during all such operations within the TPA to monitor demolition activity

C. Selective tree removal within the PPA will be allowed only under the direction of the City Arborist. The work must be performed by an experienced tree service contractor, not construction workers. Trees to be removed shall be felled in such a way that damage to preserved trees is avoided or minimized.

D. All tree work contractors are required to have a City of Falls Church annual Tree Contractor license; the most recent list of licensed Tree Contractors is posted on the City's website.

E. Root pruning, where required, shall be performed outside the PPA by cutting all roots cleanly to a depth of at least 24 inches. Roots shall be cut using a vibrating knife or narrow mechanical trencher with sharp blades, or by manually digging a trench and cutting exposed roots with a saw. Once a trench is opened up, approximately 4" wide, all exposed roots shall be hand pruned to make clean-cut ends. Pruned roots shall be promptly covered with moist soil.

F. All pruning on preserved trees must be performed to ANSI A300 and Z133 standards by an arborist certified by the International Society of Arboriculture (ISA), and in accordance with the construction plans and the direction of the City Arborist. Construction workers shall not be allowed to prune trees.

G. If the City Arborist approves temporary access over the root area of trees to be retained, a roadbed of at least 15 inches of wood chips or crushed rock shall be created and replenished as necessary by the Contractor to protect the soil

H. When the roots of trees designated to be saved are exposed by the Contractor's operation, they shall be wrapped with heavy, moist material, such as burlap or canvas, for protection and to prevent excessive drying. The material shall be kept moist and securely fastened until the roots are covered to finish grade. All material and fasteners shall be removed from the roots before covering.

I. Fertilizers shall not be applied unless specified in the construction plan or soil tests indicate the need, and shall be applied at the rate indicated by the soil test. Fertilizer products shall be in slow-release granular form, uniform in composition, free flowing, and delivered to the project in original containers with manufacturer labels attached.

J. Pesticides shall not be applied unless specified in the construction plan or by the City Arborist. All pesticides shall be registered with the Virginia Department of Agriculture and Consumer Services: copies of the MSDS for each product shall be supplied to the City. All materials and applications shall be in accordance with all Commonwealth of Virginia pesticide laws and regulations and be approved by the City Arborist before application. All pesticide applications must be performed by an individual with a valid Virginia Commercial Pesticide Applicator License.

K. Mulch shall consist of double shredded hardwood, shredded hardwood bark, or arborist wood chips from tree removal and pruning operations only (no tub-grinder chips or hog fuel). Mulch shall be placed where specified on the construction plan, no less than 3 inches and no more than 4 inches deep, and shall be kept 4 inches away from tree trunks. L. Wood chips from on-site tree work operations may be spread in vegetated areas of the site if approved by the City Arborist, to a depth of no more than 4 inches, with no chips against tree trunks.

5. At Completion of Project

At the completion of construction (and all equipment has been removed from site), notify the City Arborist for an inspection before removing the plant protection fencing. At this time, all trees will be inspected and any repairs needed will be stipulated by the City and promptly made by the Contractor.

6. Damage to Preserved Vegetation

Refer also to Job Site Damages, in the City of Falls Church's Contract General Provisions.

A. If damage occurs to any preserved tree during construction, it shall be reported to the City Arborist as soon as possible so that prompt remedial action can be taken. Such repairs, and the replacement in kind of those trees that cannot be satisfactorily repaired, shall be performed at the Contractor's expense. B. If due to, or for any reason related to the Contractor's operation, any tree, shrub, ground cover or herbaceous

vegetation designated to be saved is destroyed, disfigured, or damaged to the extent that continued life is questionable as determined by the City Arborist, it shall be removed by the Contractor at the direction of the City Arborist. The Contractor will be assessed damages equal to the value of the vegetation as determined in the Guide for Plant Appraisal, Current Edition, published by the International Society of Arboriculture, plus the estimated cost of restoration with a similar species. C. Damage which may require replacement of vegetation includes torn or broken bark, stripping, broken branches,

exposed root systems, cut root systems, poisoned root systems, compaction of surface soil and roots, puncture wounds, drastic reduction of surface roots or leaf canopy, changes in grade greater than 6 inches, or any other changes to the site that may jeopardize the survival or health of the vegetation to be preserved.

D. Any damage so assessed will be deducted from the monies due or that may become due the Contractor.

D. TREE & STUMP REMOVAL

1. Description

This work shall consist of the selective removal and disposal of trees, stumps and woody debris on construction projects. Stumps to remain shall be treated with an approved herbicide to prevent sprouting. 2. Materials

Herbicides used shall be registered with the Virginia Department of Agriculture and Consumer Services; copies of the MSDS for each product shall be supplied to the City. All materials and applications shall be in accordance with all Commonwealth of Virginia pesticide laws and regulations and be approved by the City Arborist before application. All pesticide applications must be performed by an individual with a valid Virginia Commercial Pesticide Applicator License. Procedures

A. Trees to be removed shall be clearly marked and approved by the City Arborist prior to demolition or entry of any equipment on site.

B. The Contractor's tree removal operations shall not damage trees and shrubs that are to remain (including off-site trees). If roots are entwined, the City Arborist may require root pruning before commencing tree removal. Tree removal within 50 feet of a tree to remain must be performed by an experienced tree service contractor, not construction workers. C. All tree work contractors are required to have a City of Falls Church annual Tree Contractor license; the most recent list of licensed Tree Contractors is posted on the City's website.

D. Stumps and any visible surface roots shall be ground to a depth of at least 18 inches. Stump chips shall be hauled away and the resulting depression filled with Class A or B Topsoil conforming to VDOT 244.02(b), compacted to match the surrounding soil.

E. Where the construction plan calls out stumps to remain, they shall be cut not higher than 4 inches above the ground unless otherwise specified on the plan. Stumps of living trees and shrubs shall be coated with a herbicide solution within 48 hours after they are cut. The exposed surface of stumps and exposed live roots shall be saturated with herbicide to the

point of runoff.

F. Woody plant debris shall be disposed of by either hauling from the site or chipping. Wood greater than 6 inches in diameter shall be disposed of as saw logs, pulpwood, firewood or other usable material. Chips may be spread in vegetated areas of the site if approved by the City Arborist, to a depth of no more than 4 inches, with no chips against tree trunks.

Damage to Preserved Vegetation

A. Any damage to remaining trees due to tree removal activities shall be reported to the City Arborist as soon as possible so that prompt remedial action can be taken

B. If due to, or for any reason related to the Contractor's operation, any tree, shrub, ground cover or herbaceous vegetation designated to be saved is destroyed, disfigured, or damaged to the extent that continued life is questionable as determined by the City Arborist, it shall be removed by the Contractor at the direction of the City Arborist. The Contractor will be assessed damages equal to the value of the vegetation as determined in the Guide for Plant Appraisal, Current Edition, published by the International Society of Arboriculture, plus the estimated cost of restoration with a similar species. C. Damage which may require replacement of vegetation includes torn or broken bark, stripping, broken branches, exposed root systems, cut root systems, poisoned root systems, compaction of surface soil and roots, puncture wounds. drastic reduction of surface roots or leaf canopy, changes in grade greater than 6 inches, or any other changes to the site

that may jeopardize the survival or health of the vegetation to be preserved D. Any damage so assessed will be deducted from the monies due or that may become due the Contractor.

E. PLANTING SPECIFICATIONS 1. Description

This work shall consist of furnishing and installing plant material as indicated on the construction plans, including all labor, materials, plants, equipment, incidentals, and clean-up.

A. During installation of trees and shrubs, all work areas shall be kept neat, clean and free of all trash and debris, and all reasonable precautions shall be taken to avoid damage to existing plants, turf, structures, and private property. B. The Contractor shall be responsible for removal and disposal off-site of all trash, excess backfill and any materials incidental to the project.

A. The Contractor shall acquire plant materials from certified nurseries that have been inspected by state and/or federal

B. All plant materials shall conform to the American Standard for Nursery Stock, ANSI Z60 latest edition, published by American Hort. Pay particular note to the fact that all trees must have their root crowns visible at or near the soil surface, and that circling roots are not acceptable. Plants that do not meet all elements of ANSI Z60 will be rejected.

C. All plant materials shall bear nursery tags indicating the genus, species and if applicable, cultivar or variety. The Contractor shall remove all tags after the City Arborist has inspected and approved the plant material.

D. The Contractor and her/his suppliers shall keep all plant materials damp and protected from damage, sun, wind and

temperature extremes during transport. Plants shall be handled by their root balls or containers only. E. All plant materials must pass inspection by the City Arborist prior to planting. The Contractor shall phone at least three days prior to installation to schedule inspections.

F. Substitutions in plant material or sizes specified will not be accepted unless approved by the City Arborist prior to

Other Materials

A. Unless otherwise specified, imported topsoil shall meet the specifications of VDOT Road & Bridge Specifications Section 244.02(b).

B. Fertilizers, if required, shall be formulated to supply required elements as indicated by soil testing. Fertilizer products shall be in slow-release granular form, uniform in composition, free flowing, and delivered to the project in original containers with manufacturer labels attached

C. Unless otherwise specified in the construction plans, compost shall consist of decomposed vegetable matter which has been composted to support bacterial cultures. Such compost shall not contain live plant seeds or plant disease organisms.

D. Unless otherwise specified in the construction plans, mulch shall consist of double shredded hardwood, shredded hardwood bark, or arborist wood chips from tree removal and pruning operations only (no tub-grinder chips or hog fuel). Mulch shall be placed as specified on the construction plan, no less than 3 inches and no more than 4 inches deep, and shall be kept 4 inches away from tree trunks.

A. The Contractor shall not begin soil or planting work until all construction is finished and all irrigation work is complete

B. Planting operations shall be performed during periods within the planting season when weather and soil conditions are suitable and in accordance with accepted local practice. The Contractor shall not install plants in soil that is muddy or

C. Planting season dates: Deciduous Trees - March 1 to May 30 or September 1 to December 15.

Evergreen Trees - March 1 to May 15 or September 1 to November 15.

Other Plants: March 1 to December 15.

D. Plant material shall be planted on the day of delivery if/when practical. In the event that this is not possible, the Contractor shall keep plants damp and protect them from damage, sun, wind and temperature extremes until they are planted. Any plants not installed within three days after delivery shall be rejected, unless the City Arborist and Contractor provide otherwise by written agreement.

A. Seeding shall follow VDOT Road & Bridge Specifications, Section 603. B. Sodding shall follow VDOT Road & Bridge Specifications, Section 604.

7. Prior to Planting

A. Soil shall be prepared, and topsoil applied if specified in the construction plans, following VDOT Road & Bridge Specifications, Section 602.03(b & c).

B. If soils are compacted in a planting area, the Contractor shall spread six inches of compost over the area and till to a depth of eighteen inches. The Contractor shall not add sand, and shall not till within a tree preservation area.

C. The Contractor shall have the soil fertility tested at an accredited laboratory and submit the results to the City Arborist prior to installing plant material. Only if needed, the Contractor shall supply and apply fertilizer at the rate indicated by the soil test.

D. If the soil drains at a rate less than one inch per hour, the Contractor shall install drainage to carry water away from bottom of the planting hole, or move or raise the planting site (berm construction). E. The Contractor shall verify existing conditions and utility locations before digging planting holes or planting beds. The

City of Falls Church may require the Contractor to stake the locations of individual plants within the approved planting F. The City Arborist must approve plant material location adjustments from the construction plans prior to planting.

8. Planting Procedure

A. Remove any excess soil from the top of the soil ball so that the top of the root flare is exposed and the top of the ball B. Dig tree and shrub planting holes a minimum of two and a half times the width of the root ball and no deeper than

the height of the root ball. C. Remove all ropes, ties and tags from trees and shrubs to prevent girdling branches and trunks. D. Plant trees and shrubs at the height of the surrounding grade. Root flares must be visible at or barely above the final

E. Pruning at the time of planting shall be done only to remove dead or damaged branches or co-dominant leaders. F. Balled and burlapped plants: Remove pinning nails and rope lacing, remove the top 12" of the wire basket, then cut

G. Container plants: Remove the container completely. Using a sharp tool, cut the outer 1 inch off from the entire root/soil ball to remove any small circling roots. H. Backfill planting holes with soil only. Do not add fertilizer or organic matter such as peat moss into the backfill. Do not add gravel or sand. When half of the soil has been returned to the planting hole, use water to settle soil and eliminate air

pockets. Water again after the remaining soil has been placed. I. Form a three-inch rim of soil around the planting holes for individual trees in turf areas, to hold water and mulch. J. Plant perennials at the same depth they were in the containers. For bare root perennials, plant with the soil even with

the top of the root crown. Dig the hole wide enough to allow the roots to spread out in the soil. Push the soil back into the hole over the roots and use water to settle the soil. K. Stake trees only where requested by the City Arborist, in areas of high traffic or highly windy locations. Unless otherwise specified, pound three six-foot stakes at least two feet into the ground outside the root ball. Use plastic chain lock tie or fabric straps that won't damage the bark, and allow trees 2-3 inches of flex. Place the ties at 1/3 of the tree's height.

Remove all staking material after one year. L. Use tree wrap only if specified by the City Arborist. In these instances use white wrap, attaching without the use of wire, rope or ties, and remove after one year.

M. The Contractor shall supply and place mulch as specified on the construction plan. For trees and shrubs, place mulch no less than 3 inches and no more than 4 inches deep, and keep it 4 inches away from tree trunks. For perennials, place mulch no more than 2 inches deep.

Upon the completion of all planting work and before final acceptance, the Contractor shall remove all material, equipment and debris resulting from his work. All paved areas shall be broom cleaned and the site left in a neat and acceptable condition as approved by the City Arborist.

10. Warranty of Plant Material

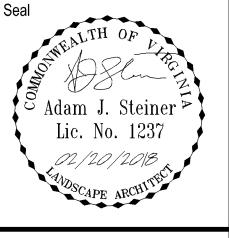
A. The Contractor shall warranty (guarantee) all plant material to be in vigorous growing condition at planting, and shall guarantee plant growth for at least one year from the date of final acceptance of the planting. If any plants die or fail to flourish within that year, replacements shall be made at the beginning of the first succeeding planting season.

B. During the Warranty Period, the Contractor shall maintain all plantings as required for healthy growth. This work shall include watering when natural rainfall is less than 1 inch per week; controlling weed growth; mowing turf areas; restoring planting saucers and mulch; repairing stakes and guy supports; resetting plants to proper grades or vertical position as required; and pest control as required to keep plants healthy.

NOTE:

THE FALLS CHURCH STANDARD NOTES AND DETAILS APPLY TO ALL NEW LANDSCAPING INSTALLED ON SITE. WHERE CONFLICTS OCCUR BETWEEN STANDARD CITY REQUIREMENTS AND LANDSCAPE ARCHITECTURE SPECIFICATIONS, THE CITY STANDARDS WILL APPLY UNLESS OTHERWISE AUTHORIZED BY THE CITY ARBORIST AT THE TIME OF INSTALLATION.

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MILLCREE 6701 Democracy Boulevard Suite 500 Rockville, MD 20817

Contact: Amirali Nasserian

Revision / Issue No. Description SUBMISSION 01 09.23.2016 SUBMISSION 02 02.20.2018

Description

Project Name **FOUNDERS**

City of Falls Church, Virginia Checked By

Project No. 17-708

Date FEBRUARY 20, 2018 Drawing Title

2 STRANDS OF TWISTED GALVANIZED WIRE EACH

SET TREE ABOVE ORIGINAL GRADE 1/8 **LANDSCAPE** NOTES & - 2" SHREDDED HARDWOOD MULCH SOIL SAUCER: USE PREPARED SOIL, 6" MIN. **DETAILS**

PLANTING SOIL MIX PER PLANTING

ROPES AT TOP OF BALL SHALL BE

CUT. REMOVE TOP 1/2 OF BURLAP.

NON-BIODEGRADABLE MATERIAL

SHALL BE TOTALLY REMOVED

SPECIFICATIONS UNDISTURBED SOIL PEDESTAL

- RUBBER HOSE AT BARK

DEPTH OF ROOT BALL

GUY WIRES (3), WHITE FLAG ON EACH

TURNBUCKLE (3), GALVANIZED

PELINE ONLY PROKEN BRANCHES

RETAIN HATURAL GHAPE

tO NOT PRUNE TERMINAL LEADER

- UNDE ALL ROPE OR CORD BINDING BURLAP

AND REMOVE BURLAP FROM TOP 3/3 ROOTEALL

FOR CONTAINER PLANTS REMOVE CONTAINER AND

MED WHERE POSSIBLE; FOR SHELLING PLANTED

INDIVIDUALLY BASE OF PLANTING PIT TO THE MIN.

POTOTIL OR LOOSEN GOIL IN ENTIRE PLANTING

ZX WIDTH ROOT BALL OR CONTAINER

CITY OF FALLS CHURCH SHRUB PLANTING DETAIL

EVERGREEN TREE PLANTING

NOT TO SCALE

SLICE SIDES OF ROOT SYSTEM VERTICALLY 45 DES - LOGGENED SOIL - FERTILITIER IN TOP 4"

- 3" HIGH ESICTLY EDGE TO FORM SXLICER

Drawing Number

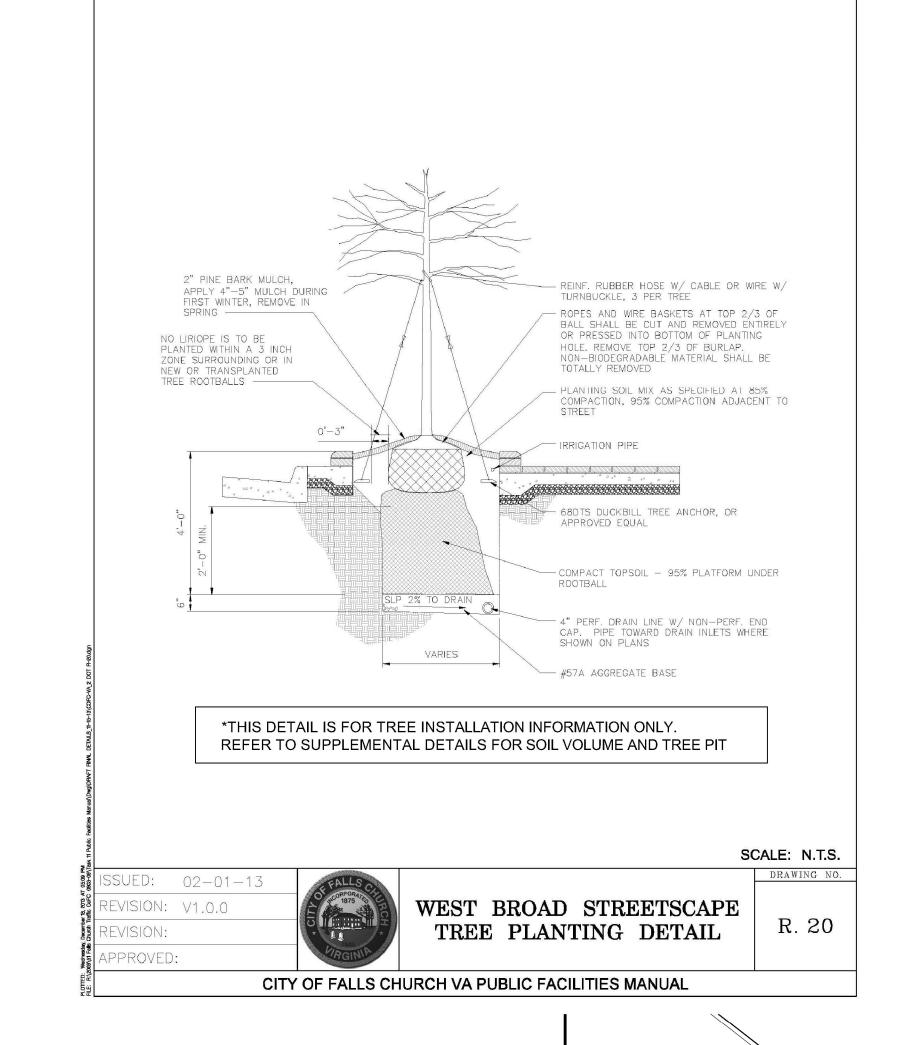
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Scale: As Shown

TREE PLANTING DETAIL - DO NOT PEUNE TERMINAL LEADER OR BRANCHTIPS PRUNE BROKEN DO NOT STAKE BRANCHES OR DOUBLE EXCEPT IN HIGH LEADER WIND AREAS; DONOTAPPLY TREE WRAP REMOVE ALL TAGS ? RIPHONS PLANT SO ROOT FLARE VISIBLE. REMOVE ALL ROPES 2.3" DEEP MULCH -- REMOVE WIPE BASKETS KEPT 3" FROM TRUNK BURLAP FROM TOP 4/3 OF ROOFBALL LEXISTING GRADE LINAMENDED -FARTIALLY BACKFILL, BACKFILL -WATER TO SETTLE, FAN GIDES OF PIT -FINISH BACKFILL AND SCORE WALLS'S ADD FERTILIZER TO - UNDISTLIKISED SOIL TOP4" BACKFILL BASE OF PLANTING PITMIN. LX WIDTH ROOTBALL

CITY OF FALLS CHURCH TREE PLANTING DETAIL

THE FALLS CHURCH STANDARD NOTES AND DETAILS APPLY TO ALL NEW LANDSCAPING INSTALLED ON SITE. WHERE CONFLICTS OCCUR BETWEEN STANDARD CITY REQUIREMENTS AND LANDSCAPE ARCHITECTURE SPECIFICATIONS, THE CITY STANDARDS WILL APPLY UNLESS OTHERWISE AUTHORIZED BY THE CITY ARBORIST AT THE TIME OF INSTALLATION.



SOIL PANEL: SECTION

TREE PIT: SECTION

TYPICAL CANTILEVERED

SIDEWALK SIDEWALK #4 REBAR CONTINUOUS ---

THRU SOIL PANEL

AMENDED SOIL

PANEL

6'-4" SOIL PANEL

UNIT PAVERS —

6x6 #2x#2 WWM CONT. WITHIN 4" ——

#4 REBAR @ 12" o.c. ACROSS

AMENDED SOIL PANEL

PROVIDE CONT. BAR SUPPORTS

6 MIL. PVC VAPOR BARRIER TO BE

LAID OVER 4" DEEP GRAVEL

AMENDED BACKFILL SOIL MIX, -

4" DIA. PERFORATED PVC PIPE -

6" FREE - DRAINING GRAVEL

WRAPPED IN FILTER FABRIC TO BE CONNECTED TO PUBLIC STORM

COMPACTED SOIL BASE

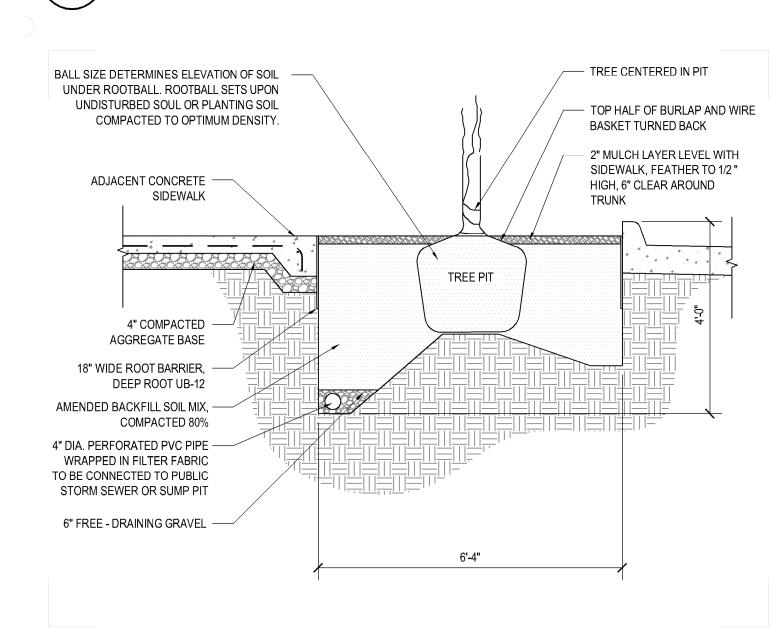
COMPACTED 80%

SEWER OR SUMP PIT

CONCRETE SLAB

@ ±3' o.c.

SUBBASE



-LIMITS OF ULTIMATE STREET TREE CANOPY COVERAGE: 30' Ø = 707 SF (SEE NOTE 4) LIMITS OF SOIL VOLUME 65 SF OPEN SOIL AREA -FACE OF CURB -- LIMITS OF SOIL VOLUME PROVIDED PER TREE (TYP.)(SEE NOTES 1-3) 12'-8" CLEAR — SOIL VOLUME EXTENSION BEYOND LAST TREE IN SERIES 28'-0" O.C. TREE SPACING 28'-0" L

WEST BROAD STREET-ROUTE 7

SOIL VOLUME DIAGRAM

FACE OF BUILDING —

SOIL VOLUME COMPUTATIONS AND INFORMATION BASED ON: 1. 1 CUBIC FOOT OF SOIL PROVIDED PER 1 SQUARE FOOT OF CANOPY COVERAGE WHEN IRRIGATED 28'L x 6'-4"W x 4'D = 709 CF OF SOIL VOLUME PROVIDED PER TREE (<u>UP BY ROOTS</u> JAMES URBAN COPYRIGHT 2008: SOIL VOLUME REQUIRED FIGURE 1.5.38)

2. MEASURES TO PROVIDE REQUIRED SOIL VOLUME: A. CANTILEVERED PAVEMENT OVER TOPSOIL

3. TOTAL SOIL VOLUME PROVIDED PER TREE = 700 CUBIC FEET

(TYSON'S CORNER URBAN DESIGN GUIDELINES ADOPTED JANUARY 21, 2012 TREE SPACE DESIGN SECTION 3.6A)

CANOPY GIVEN PROXIMITY TO BUILDING, CURB AND ADJACENT TREES

4. ULTIMATE STREET TREE CANOPY COVERAGE ASSUMPTIONS BASED ON ACTUAL AVAILABLE GROWTH ZONE FOR

Scale: As Shown

Sheet

Drawing Number

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MILL CREEK
RESIDENTIAL

09.23.2016

02.20.2018

6701 Democracy Boulevard

Contact: Amirali Nasserian

SUBMISSION 01

SUBMISSION 02

Description

FOUNDERS

ROW

City of Falls Church, Virginia

Date FEBRUARY 20, 2018

LANDSCAPE

DETAILS

Project No. 17-708

Drawing Title

Checked By

Project Name

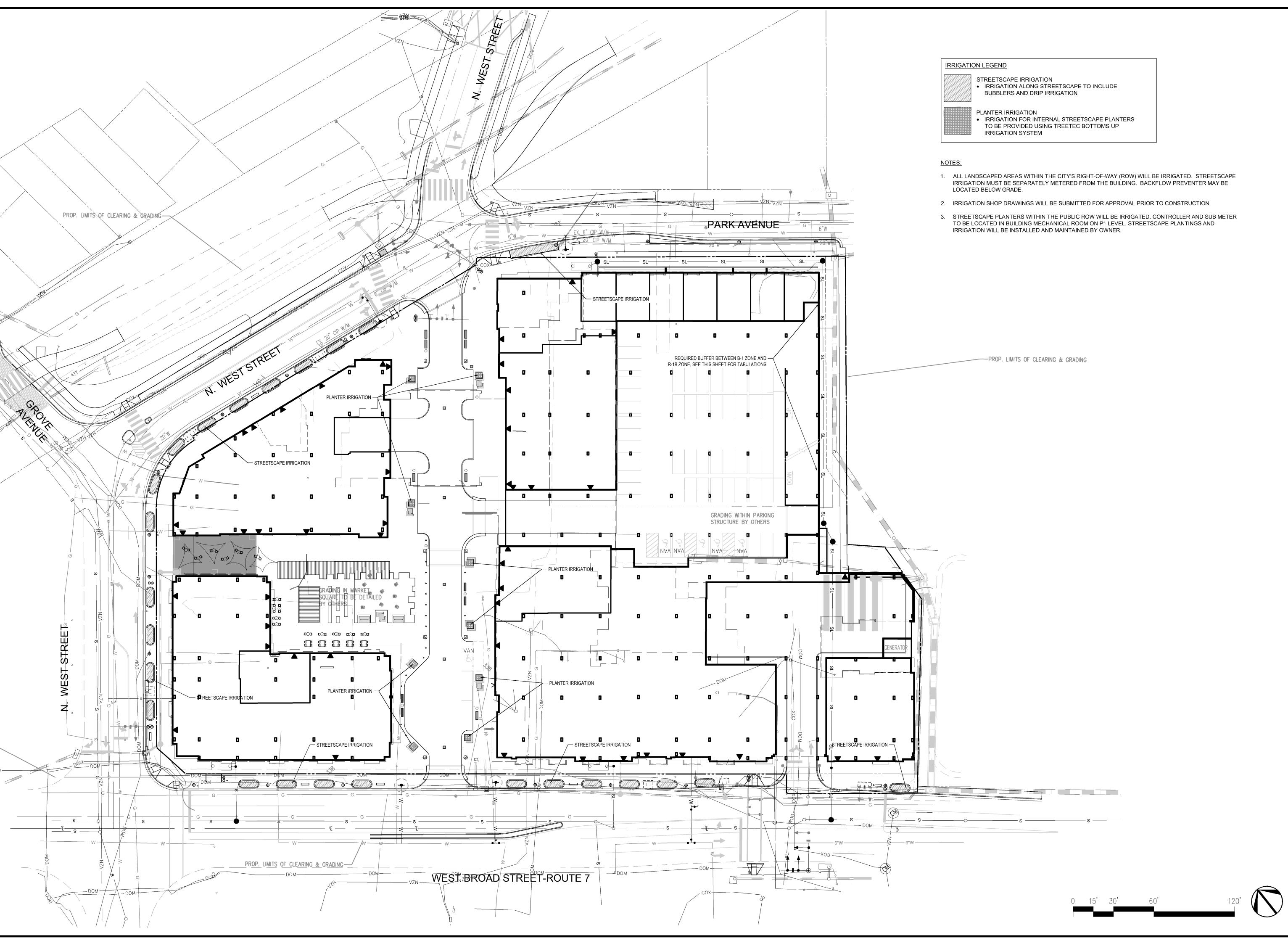
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No. Description

Seal





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Revision / Issue

No. Description Date
SUBMISSION 01 09.23.2016
SUBMISSION 02 02.20.2018

e Description

Project Name

FOUNDERS ROW

City of Falls Church, Virginia

Orawn By Checked By MLH AJS

Project No. 17-708

Date FEBRUARY 20, 2018

Drawing Title

LIMITS OF IRRIGATION PLAN - STREETSCAPE

Scale: 1" = 30'-0"

Drawing Number

Sheet

L4.0